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1635

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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	09/479,783
Filing Date	January 7, 2000
First Named Inventor	Stanley T. Crooke
Group Art Unit	1635
Examiner Name	S. McGarry
Attorney Docket Number	ISIS0002-102

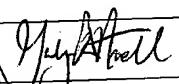
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ENCLOSURES (check all that apply)

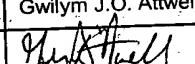
<input type="checkbox"/> Fee Transmittal Form	<input checked="" type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment / Response	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input checked="" type="checkbox"/> Power of Attorney with Revocation and Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	Table A Statement Under 37 CFR 3.73(b) with executed Assignment
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s)	
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application		
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		
	Remarks	

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Gwilym J.O. Attwell, Registration No. 45,449
Signature	
Date	April 15, 2003

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on this date:

Typed or printed name	Gwilym J.O. Attwell, Registration No. 45,449
Signature	
Date	April 15, 2003

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

**POWER OF ATTORNEY WITH REVOCATION AND
CHANGE OF CORRESPONDENCE ADDRESS**

I hereby revoke all previous powers of attorney or authorizations of agent given in the applications/patents identified in Table A attached hereto, and appoint



Practitioners at Customer Number: 34138

as my/our attorney(s) or agent(s) to prosecute the applications/patents identified in Table A, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the Correspondence Address for the applications/patents identified in Table A to:

Practitioners at Customer Number: 34138

I am the:

Applicant/Inventor.

Assignee of record of the entire interest. (A statement under 37 CFR 3.73(b) is enclosed.)

Respectfully submitted,
ISIS PHARMACEUTICALS, INC.

By:

Name: B. Lynne Parshall
Title: Executive Vice President

Date: 3/27/03

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Assistant Commissioner for Patents
Washington, DC 20231

Sir:

STATEMENT UNDER 37 CFR 3.73(b)

Applicant, **ISIS Pharmaceuticals, Inc.**, a corporation, states that it is:

the assignee of the entire right, title, and interest of the applications identified in Table A attached hereto.

The extent (by, percentage) of its ownership interest is 100% in the patent applications identified in Table A.

a copy of the pertinent assignment from the inventor(s) of the patent applications identified in Table A is enclosed herewith.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Respectfully submitted,
ISIS PHARMACEUTICALS, INC.

Date: 3/27/03

By: _____

Name: B. Lynne Parshall
Title: Executive Vice President



Table A

Serial No. Patent No. Docket No.	Filing Date Issue Date	Inventor(s)	Examiner	Art Unit	Title
08/659,440 5,898,031 (ISIS0002-100)	06/06/1996 04/27/1999	S. Crooke	J. LeGuyader	1809	OLIGORIBONUCLEOTIDES FOR CLEAVING RNA
08/870,608 6,107,094 (ISIS0002-101)	06/06/1997 08/22/2000	S. Crooke	S. McGarry	1635	OLIGORIBONUCLEOTIDES AND RIBONUCLEASES FOR CLEAVING RNA
09/479,783 (ISIS0002-102)	01/07/2000	S. Crooke	S. McGarry	1635	OLIGORIBONUCLEOTIDES AND RIBONUCLEASES FOR CLEAVING RNA
10/078,949 (ISIS0002-103)	02/20/2002	S. Crooke	Unknown	1635	OLIGORIBONUCLEOTIDES AND RIBONUCLEASES FOR CLEAVING RNA
09/900,425 (ISIS0003-100)	07/06/2000	H. Wu et al.	S. McGarry	1635	HUMAN RNASE III AND COMPOSITIONS AND USES THEREOF
10/079,185 (ISIS0003-101)	02/20/2002	S. Crooke	Unknown	1635	HUMAN RNASE III AND COMPOSITIONS AND USES THEREOF
10/199,674 (ISIS0035-100)	07/19/2002	L. Cowser et al.	Unknown	1646	ANTISENSE MODULATION OF PROTEIN KINASE C-10TA EXPRESSION
10/177,554 (ISIS0036-100)	06/20/2002	K. Dobie et al.	Unknown	1645	ANTISENSE MODULATION OF PRL-3 EXPRESSION
10/188,646 (ISIS0037-100)	07/02/2002	F. Bennett et al.	Unknown	1642	ANTISENSE MODULATION OF LIVIN EXPRESSION

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JANUARY 31, 2003



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Washington, D.C. 20231

IS150002-102

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COZEN O'CONNOR
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1900 MARKET STREET
PHILADELPHIA, PENNSYLVANIA 19103-3508

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 01/29/2003

REEL/FRAME: 013394/0771
NUMBER OF PAGES: 4

BRIEF: DOCUMENT RE-RECORDED TO CORRECT ERROR CONTAINED IN PROPERTY NUMBER 08/870608. DOCUMENT PREVIOUSLY RECORDED ON REEL 008858 FRAME 0937.

ASSIGNOR:
CROOKE, STANLEY T.

DOC DATE: 06/23/1997

ASSIGNEE:
ISIS PHARMACEUTICALS, INC.
2292 FARADAY AVENUE
CARLSBAD, CALIFORNIA 92008

SERIAL NUMBER: 09479783
PATENT NUMBER:

FILING DATE: 01/07/2000
ISSUE DATE:

DOROTHY RILEY, PARALEGAL
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

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PATENT
Sole Inventor

(Pending Application;
Serial No. Unknown)

DOCKET NO.: ISIS-2484

ASSIGNMENT

WHEREAS, I Stanley T. Crooke, hereinafter referred to as the assignor, residing at 3211 Piragua Street, Carlsbad, CA 92009, am the inventor of certain inventions or improvements for which I have made application for Letters Patent of the United States, identified as Case No. ISIS-2484, entitled OLIGORIBONUCLEOTIDES AND RIBONUCLEASES FOR CLEAVING RNA; and

WHEREAS, ISIS Pharmaceuticals, Inc., hereinafter referred to as the assignee, of 2292 Faraday Avenue, Carlsbad CA 92008, a corporation of Delaware is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to me in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, I, the said assignor, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, to said assignee, the entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any re-issue or re-issues or extension or extensions of said Letters Patent, and assign to and authorize said assignee to file in my name applications for Letters Patent in all countries the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me had this assignment, sale and transfer not been made.

AND I hereby covenant that I have full right to convey the entire interest herein assigned, and that I have not executed and will not execute any agreement in conflict herewith, and I further covenant and agree that I will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees or legal representatives, and I agree to communicate to said assignee, or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify

in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND I hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patents of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

I further authorize and direct my attorneys to insert below* the serial number and filing date of said application now identified as Case No. ISIS-2484 as soon as the same shall have been made known to them by the United States Patent Office.

IN WITNESS WHEREOF, I have hereunto set my hand and seal.


(L.S.)

State of California :

ss

COUNTY OF San Diego :

On this 23rd day of June, 1997, before me personally came the above named Stanley T. Cwikel, to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.



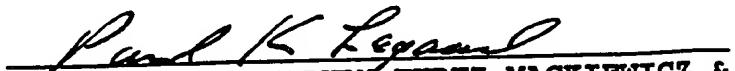
CHARMAINE D. WEBB
COMM. # 1000446
Notary Public - California
SAN DIEGO COUNTY
My Comm. Expires NOV 7, 1997



Charmaine D. Webb
Notary Public

*The above assignment covers application Serial No.
08/870,608, filed on June 6, 1997.

The above insertion made by me this 5th day of
December, 1997.


of WOODCOCK WASHBURN KURTZ MACKIEWICZ &
NORRIS